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MEMORANDUM FOR:	Chief, Ballistic Missile and Space	Division, OSI	
ATTENTION:		•	25X1
THROUGH:	Chief, Requirements Branch, Reconn	aissance Group, CGS	
FROM:	Chief, CIA/PID (NPIC)		
SUBJECT:	Photo Analysis of Khutor FLIM FLAM	Tracking Station, USSR	
REFERENCES:	(a) Requirement C-SI-3-80,659 (b) CIA/PID Project C 1397-63 (c) NPIC/R69/64		
Petropavlovsk. Khutor site is The Yelizovo/Pe northeast of th		on the Avancha River. The Lizovo and Nikolayevka. Ly five nautical miles	25 X 1
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Declassified in Part - Sanitized Copy Approved for Release 2012/07/17 : CIA-RDP78T05439A000400060043-8

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SUBJECT: Photo Analysis of Khutor FLIM FLAM Tracking Station, USSR The Khutor site was first observed which time it consisted of the Main Support Area E, the Krug, the interferometer the Communication Station A, and Operation Area C without the near space trackin buildings (Items 1 and 2). The existence of the interferometer suggests that at this time the site was probably associated with near space tracking. Khutor was next covered on interpretable photography of April 1962 The Krug, interferometer and Communication Station A remained unchanged. Additions to the site consisted of Communication Station B, Operations Area D; additional buildings in the Main Support Area E and the construction of the associated near space tracking buildings (Items 1 and 2) in Operations Area C. Between April 1962 and June 1963 ated near space tracking buildings (Items 3 and 4) were constructed in Operation Area D.	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Communication Station A - The quality of photography precludes the identification of masts; however, clearings indicate the existence of at least eleven rhombic antennas. Although nothing definite can be determined as to whether this is a transmitter or receiving station, the possibility of antennas spaced for diversity reception makes this a suspect receiving station. Due to additional time requirement for obtaining antenna orientation azimuths data, this communication station will be forwarded at a later date. Communication Station B - The quality of photography precludes the identification of masts; however, clearings in	The Knutor site was first observed which time it consisted of the Main Support Area E, the Krug, the interferomethe Communication Station A, and Operation Area C without the near space trace buildings (Items 1 and 2). The existence of the interferometer suggests that at this time the site was probably associated with near space tracking. 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Communication Station B - The quality of photography precludes the identification of masts; however, clearings indicate the existence of approxim twelve antennas probably of the horizontal dipole and V-antenna design. Due to additional time requirement for obtaining critical orientation azimuths,	and March 1964 , no significant changes could be noted. For the first time, however, more information could be obtained on the space tracking buildings (Items 3 and 4) within Operations Area D. The following are details of each of the above mentioned areas: Krug - Outer circle 1011-foot diameter, antennas reflector screen Interferometer - Circular fence or road 1018-foot diameter. The antecannot be identified, however, it is doubtful that they could be identified unl covered by radomes. Communication Station A - The quality of photography precludes the identification of masts; however, clearings indicate the existence of at least eleven rhombic antennas. 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Interferometer - Circular fence or road 1018-foot diameter. The antercannot be identified, however, it is doubtful that they could be identified unification of masts; however, clearings indicate the existence of at least eleven rhombic antennas. Although nothing definite can be determined as to whether this is a transmitter or receiving station, the possibility of antennas spaced for diversity reception makes this a suspect receiving station. Due to additional time requirement for obtaining antenna orientation azimuths data,	cannot be identified, however, it is doubtful that they could be identified unicovered by radomes. Communication Station A - The quality of photography precludes the identification of masts; however, clearings indicate the existence of at least eleven rhombic antennas. Although nothing definite can be determined as to whether this is a transmitter or receiving station, the possibility of antennas spaced for diversity reception makes this a suspect receiving station. Due to additional time requirement for obtaining antenna orientation azimuths data,	identification of masts; however, clearings indicate the existence of at least eleven rhombic antennas. Although nothing definite can be determined as to whether this is a transmitter or receiving station, the possibility of antennas spaced for diversity reception makes this a suspect receiving station. Due to additional time requirement for obtaining antenna orientation azimuths data,					twelve a	cation of masts; however, clearings indicate ntennas probably of the horizontal dipole and ional time requirement for obtaining critical	V-antenna design. Du L orientation azimuths,

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SUBJECT: Photo Analysis of Knutor FLIM FIAM Tracking Station, USSR Secured Operations Area C - This area was present in 1959, however, Buildings I and 2, which are believed to be associated with the near space tracking station, did not appear until April 1962. Buildings (Items I and 2) are approximately 390 feet apart. Building I is approximately 110 by 90 feet and has a probable antenna on its roof. Other buildings of various sizes are present in Area C, but their function cannot be determined. Secured Operations Area D - This area appeared in April 1962 but due to the poor quality of photography, no buildings could be identified. In June 1963 but due to the poor quality of photography, no buildings could be identified. In June 1963 these buildings appeared to be two-story, approximately 120 by 120 feet in size, and approximately 465 feet apart. The buildings appear canted and an unidentified structure appears on both roofs. Two small possible antennas are situated 110 feet from each building. Main Support Area E - This area is composed of approximately 40-50 buildings. It was present in 1959 and has expanded in size since then. It appears to be a housing and support area for the Knutor site. Unidentified Area (Items 5 and 6) - There are two buildings (Items 5 and 6) located approximately 900 feet south-southwest of the center of the interferemeter. Item 5 is approximately 65 by 65 feet, Item 6 is approximately 50 by 30 feet. The buildings are spaced 425 feet apart. No antennas are visible. These buildings were first observed in June 1963, but could not be negated. The function of these buildings is undetermined. Unidentified Area (not shown on drawing) - There is an unidentified area approximately 1.5 nautical miles northwest of Communications Station B consisting of a group of six buildings of various sizes. A road connects this area to the main road through the installation. MAP REFERENCES: ONC E-10 1:1,000,000	Station, USSR Secured Operations Area C - This area was present in 1959, however, Buildings I and 2, which are believed to be associated with the near space tracking station, did not appear until April 1962. Buildings (Items I and 2) are approximately 390 feet spart. Building I is approximately 110 by 90 feet and has a 55-foot dome on the roof. Building 2 is approximately 90 by 90 feet and has a probable antenna on its roof. Other buildings of various sizes are present in Area C, but their function cannot be determined. Secured Operations Area D - This area appeared in April 1962 but due to the poor quality of photography, no buildings could be identi- fied. In June 1963 possible near space tracking facilities (Items 3 and 4). In March 1964 these buildings appeared to be two-story, approximately 120 by 120 feet in size, and approximately 465 feet apart. The buildings appear canted and an unidentified structure appears on both roofs. Two small possible antennas are situated 110 feet from each building. Main Support Area E - This area is composed of approximately 40-50 buildings. It was present in 1959 and has expanded in size since then. It appears to be a housing and support area for the Khutor site. Unidentified Area (Items 5 and 6) - There are two buildings (Items 5 and 6) located approximately 900 feet south-southwest of the center of the interferometer. Item 5 is approximately 65 by 65 feet, Item 6 is approximately 50 by 30 feet. The buildings are spaced 425 feet apart. No antennas are visible. These buildings were first observed in June 1963, but could not be negated. The function of these buildings is undetermined. Unidentified Area (not shown on drawing) - There is an unidentified area approximately 1.5 nautical miles northwest of Communications Station B consisting of a group of six buildings of various sizes. A road connects this area to the main road through the installation. MAP REPERENCES: ONC E-10 1:1.000.000	Secured Operations Area C - This area was present in 1959, however, Buildings I and 2, which are believed to be associated with the near space tracking station, did not appear until April 1962. Buildings (Items 1 and 2) are approximately 390 feet apart. Building I is approximately 110 by 90 feet and has a 55-foot dome on the roof. Building 2 is approximately 90 by 90 feet and has a probable antenna on its roof. Other buildings of various sizes are present in Area C, but their function cannot be determined. Secured Operations Area D - This area appeared in April 1962 but due to the poor quality of photography, no buildings could be identified. In June 1963 two buildings were identified as the possible near space tracking facilities (Items 3 and 4). In March 1964 these buildings appeared to be two-story, approximately 120 by 120 feet in size, and approximately 465 feet apart. The buildings appear canted and an unidentified structure appears on both roofs. Two small possible antennas are situated 110 feet from each building. Main Support Area E - This area is composed of approximately 40-50 buildings. It was present in 1959 and has expanded in size since then. It appears to be a housing and support area for the Khutor site. Unidentified Area (Items 5 and 6) - There are two buildings (Items 5 and 6) located approximately 900 feet south-southwest of the center of the interferometer. Item 5 is approximately 65 by 65 feet, Item 6 is approximately 50 by 30 feet. The buildings are spaced 425 feet apart. No antennas are visible. These buildings were first observed in June 1963, but could not be negated. The function of these buildings is undetermined. Unidentified Area (not shown on drawing) - There is an unidentified area approximately 1.5 nautical miles northwest of Communications Station B consisting of a group of six buildings of various sizes. A road connects this area to the main road through the installation. MAP REPERENCES: ONC E-10 1:1.000.000	TOP SECRET RUFF	
Buildings 1 and 2, which are believed to be associated with the near space tracking station, did not appear until April 1962. Buildings (Items 1 and 2) are approximately 390 feet apart. Building 1 is approximately 110 by 90 feet and has a 55-foot dome on the roof. Building 2 is approximately 90 by 90 feet and has a probable antenna on its roof. Other buildings of various sizes are present in Area C, but their function cannot be determined. Secured Operations Area D - This area appeared in April 1962	Buildings 1 and 2, which are believed to be associated with the near space tracking station, did not appear until April 1962. Buildings (Items 1 and 2) are approximately 390 feet apart. Building 1 is approximately 110 by 90 feet and has a 55-foot dome on the roof. Building 2 is approximately 90 by 90 feet and has a probable antenna on its roof. Other buildings of various sizes are present in Area C, but their function cannot be determined. Secured Operations Area D - This area appeared in April 1962	Buildings 1 and 2, which are believed to be associated with the near space tracking station, did not appear until April 1962. Buildings (Items 1 and 2) are approximately 390 feet apart. Building 1 is approximately 110 by 90 feet and has a 55-foot dome on the roof. Building 2 is approximately 90 by 90 feet and has a probable antenna on its roof. Other buildings of various sizes are present in Area C, but their function cannot be determined. Secured Operations Area D - This area appeared in April 1962		M/EB 394/64
but due to the poor quality of photography, no buildings could be identified. In June 1963) two buildings were identified as the possible near space tracking facilities (Items 3 and 4). In March 1964 , these buildings appeared to be two-story, approximately 120 by 120 feet in size, and approximately 465 feet apart. The buildings appear canted and an unidentified structure appears on both roofs. Two small possible antennas are situated 110 feet from each building. Main Support Area E - This area is composed of approximately 40-50 buildings. It was present in 1959 and has expanded in size since then. It appears to be a housing and support area for the Khutor site. Unidentified Area (Items 5 and 6) - There are two buildings (Items 5 and 6) located approximately 900 feet south-southwest of the center of the interferometer. Item 5 is approximately 65 by 65 feet, Item 6 is approximately 50 by 30 feet. The buildings are spaced 425 feet apart. No antennas are visible. These buildings were first observed in June 1963, but could not be negated. The function of these buildings is undetermined. Unidentified Area (not shown on drawing) - There is an unidentified area approximately 1.5 nautical miles northwest of Communications Station B consisting of a group of six buildings of various sizes. A road connects this area to the main road through the installation. MAP REFERENCES: ONC E-10 1:1.000.000	but due to the poor quality of photography, no buildings could be identified. In June 1963) two buildings were identified as the possible near space tracking facilities (Items 3 and 4). In March 1964 , these buildings appeared to be two-story, approximately 120 by 120 feet in size, and approximately 465 feet apart. The buildings appear canted and an unidentified structure appears on both roofs. Two small possible antennas are situated 110 feet from each building. Main Support Area E - This area is composed of approximately 40-50 buildings. It was present in 1959 and has expanded in size since then. It appears to be a housing and support area for the Khutor site. Unidentified Area (Items 5 and 6) - There are two buildings (Items 5 and 6) located approximately 900 feet south-southwest of the center of the interferometer. Item 5 is approximately 65 by 65 feet, Item 6 is approximately 50 by 30 feet. The buildings are spaced 425 feet apart. No antennas are visible. These buildings were first observed in June 1963, but could not be negated. The function of these buildings is undetermined. Unidentified Area (not shown on drawing) - There is an unidentified area approximately 1.5 nautical miles northwest of Communications Station B consisting of a group of six buildings of various sizes. A road connects this area to the main road through the installation. MAP REFERENCES: ONC E-10 1:1.000.000	but due to the poor quality of photography, no buildings could be identified. In June 1963) two buildings were identified as the possible near space tracking facilities (Items 3 and 4). In March 1964 , these buildings appeared to be two-story, approximately 120 by 120 feet in size, and approximately 465 feet apart. The buildings appear canted and an unidentified structure appears on both roofs. Two small possible antennas are situated 110 feet from each building. Main Support Area E - This area is composed of approximately 40-50 buildings. It was present in 1959 and has expanded in size since then. It appears to be a housing and support area for the Khutor site. Unidentified Area (Items 5 and 6) - There are two buildings (Items 5 and 6) located approximately 900 feet south-southwest of the center of the interferometer. Item 5 is approximately 65 by 65 feet, Item 6 is approximately 50 by 30 feet. The buildings are spaced 425 feet apart. No antennas are visible. These buildings were first observed in June 1963, but could not be negated. The function of these buildings is undetermined. Unidentified Area (not shown on drawing) - There is an unidentified area approximately 1.5 nautical miles northwest of Communications Station B consisting of a group of six buildings of various sizes. A road connects this area to the main road through the installation. MAP REFERENCES: ONC E-10 1:1.000.000	Buildings 1 and 2, which are believed to be associated wi tracking station, did not appear until April 1962. Build are approximately 390 feet apart. Building 1 is approximately approximately 390 feet apart. Building 2 is a feet and has a 55-foot dome on the roof. Building 2 is a 90 feet and has a probable antenna on its roof. Other bu	th the near space ings (Items 1 and 2) ately 110 by 90 pproximately 90 by ildings of various
buildings. It was present in 1959 and has expanded in size since then. It appears to be a housing and support area for the Khutor site. Unidentified Area (Items 5 and 6) - There are two buildings (Items 5 and 6) located approximately 900 feet south-southwest of the center of the interferometer. Item 5 is approximately 65 by 65 feet, Item 6 is approximately 50 by 30 feet. The buildings are spaced 425 feet apart. No antennas are visible. These buildings were first observed in June 1963, but could not be negated. The function of these buildings is undetermined. Unidentified Area (not shown on drawing) - There is an unidentified area approximately 1.5 nautical miles northwest of Communications Station B consisting of a group of six buildings of various sizes. A road connects this area to the main road through the installation. MAP REFERENCES: ONC E-10 1:1.000.000	buildings. It was present in 1959 and has expanded in size since then. It appears to be a housing and support area for the Khutor site. Unidentified Area (Items 5 and 6) - There are two buildings (Items 5 and 6) located approximately 900 feet south-southwest of the center of the interferometer. Item 5 is approximately 65 by 65 feet, Item 6 is approximately 50 by 30 feet. The buildings are spaced 425 feet apart. No antennas are visible. These buildings were first observed in June 1963, but could not be negated. The function of these buildings is undetermined. Unidentified Area (not shown on drawing) - There is an unidentified area approximately 1.5 nautical miles northwest of Communications Station B consisting of a group of six buildings of various sizes. A road connects this area to the main road through the installation. MAP REFERENCES: ONC E-10 1:1.000.000	buildings. It was present in 1959 and has expanded in size since then. It appears to be a housing and support area for the Khutor site. Unidentified Area (Items 5 and 6) - There are two buildings (Items 5 and 6) located approximately 900 feet south-southwest of the center of the interferometer. Item 5 is approximately 65 by 65 feet, Item 6 is approximately 50 by 30 feet. The buildings are spaced 425 feet apart. No antennas are visible. These buildings were first observed in June 1963, but could not be negated. The function of these buildings is undetermined. Unidentified Area (not shown on drawing) - There is an unidentified area approximately 1.5 nautical miles northwest of Communications Station B consisting of a group of six buildings of various sizes. A road connects this area to the main road through the installation. MAP REFERENCES: ONC E-10 1:1.000.000	but due to the poor quality of photography, no builfied. In June 1963 two buildings were ide possible near space tracking facilities (Items 3 and 4). these buildings appeared to be two-story, by 120 feet in size, and approximately 465 feet apart. Items and an unidentified structure appears on both roof	dings could be identi- entified as the In March 1964 approximately 120 he buildings appear
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Unidentified Area (not shown on drawing) - There is an unidentified area approximately 1.5 nautical miles northwest of Communications Station B consisting of a group of six buildings of various sizes. A road connects this area to the main road through the installation. MAP REFERENCES: ONC E-10 1:1.000.000	Unidentified Area (not shown on drawing) - There is an unidentified area approximately 1.5 nautical miles northwest of Communications Station B consisting of a group of six buildings of various sizes. A road connects this area to the main road through the installation. MAP REFERENCES: ONC E-10 1:1.000.000	Unidentified Area (not shown on drawing) - There is an unidentified area approximately 1.5 nautical miles northwest of Communications Station B consisting of a group of six buildings of various sizes. A road connects this area to the main road through the installation. MAP REFERENCES: ONC E-10 1:1.000.000	5 and 6) located approximately 900 feet south-southwest conterferometer. Item 5 is approximately 65 by 65 feet, 50 by 30 feet. The buildings are spaced 425 feet apart. visible. These buildings were first observed in June 190	of the center of the Item 6 is approximately No antennas are 53, but could not be
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